



ELSEVIER

Solar Energy Materials and Solar Cells 44 (1996) 499–502

Solar Energy Materials
and Solar Cells

Contents of volume 44

Vol. 44, No. 1 (30 October 1996)

Papers

P.J. Sebastian and M. Ocampo

- A photodetector based on ZnCdS nanoparticles in a CdS matrix formed by screen printing and sintering of CdS and ZnCl_2 1

P.R. Mishra, A.K. Pandey and J.C. Joshi

- Design of a battery voltage regulator based on maximum power point tracking and charge equalisation concepts 11

T.A. Kattakayam, S. Khan and K. Srinivasan

- Diurnal and environmental characterization of solar photovoltaic panels using a PC-AT add on plug in card 25

S.M.A. Durrani, E.E. Khawaja, J. Shirokoff, M.A. Daous, G.D. Khattak, M.A. Salim and M.S. Hussain

- Study of electron-beam evaporated Sn-doped In_2O_3 films 37

S. Scalat, D. Banu, D. Hawes, J. Paris, F. Haghighata and D. Feldman

- Full scale thermal testing of latent heat storage in wallboard 49

B. Li, X.B. Xiang, Z.P. You, Y. Xu, X.Y. Fei and X.B. Liao

- High efficiency $\text{Al}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ solar cells: Fabrication, irradiation and annealing effect 63

Y. Yin, D.R. McKenzie and W.D. McFall

- Cathodic arc deposition of solar thermal selective surfaces 69

H. Ohtsuka, T. Uematsu and T. Warabisako

- Numerical analysis of field-effect surface passivation for solar cells 79

A. Kay and M. Grätzel

- Low cost photovoltaic modules based on dye sensitized nanocrystalline titanium dioxide and carbon powder 99

*Vol. 44, No. 2 (15 November 1996)***Papers**

- D. Matthews, P. Infelta and M. Grätzel
Calculation of the photocurrent-potential characteristic for regenerative, sensitized semiconductor electrodes 119
- G.H. Lin, M.Z. He and J.O.M. Bockris
An initial investigation of amorphous silicon-selenium solar cells 157
- B. Jagannathan and W.A. Anderson
Interface effects on the carrier transport and photovoltaic properties of hydrogenated amorphous silicon/crystalline silicon solar cells 165
- J. Sarlund, M. Ritala, M. Leskelä, E. Siponmaa and R. Zilliacus
Characterization of etching procedure in preparation of CdTe solar cells 177
- J. Farah, B. Azar, A. Khoury, P. Mialhe and P. Blaise
Dynamic interface velocity for junction characterization 191
- D. Curc6, S. Malato, J. Blanco and J. Gim6nez
Photocatalysis and radiation absorption in a solar plant 199

*Vol. 44, No. 3 (30 November 1996)***Papers**

- E.A. Levitskij, Yu.I. Aristov, M.M. Tokarev and V.N. Parmon
"Chemical Heat Accumulators": A new approach to accumulating low potential heat 219
- S. Gopal, S.A. Agnihotry and V.D. Gupta
Ionic conductivity in poly(vinyl butyral) based polymeric electrolytes: Effect of solvents and salts 237
- W. Siripala, L.D.R.D. Perera, K.T.L. De Silva, J.K.D.S. Jayanetti and I.M. Dharmadasa
Study of annealing effects of cuprous oxide grown by electrodeposition technique 251
- S. Rubab and T. Chandra Kandpal
Financial evaluation of SPV lanterns for rural lighting in India 261
- A.U. Ebong, C.B. Honsberg and S.R. Wenham
Fabrication of double sided buried contact (DSBC) silicon solar cell by simultaneous pre-deposition and diffusion of boron and phosphorus 271
- X. Zhang, S. Yu and M. Ma
ZnS/Me heat mirror systems 279

Vol. 44, No. 4 (15 December 1996)

D. Faiman and C.G. Granqvist Mark Koltun (1937–1995)	291
---	-----

Papers

M.M. Koltun History of solar cell development in the Soviet space program and the terrestrial potential for this technology	293
V.M. Andreev and V.D. Rumyantsev A^3B^5 based solar cells and concentrating optical elements for space PV modules	319
A. Azens and C.G. Granqvist Electrochromic films of tungsten oxyfluoride and electron bombarded tungsten oxide	333
D. Goren, N. Amir, E. Khanin, G. Asa and Y. Nemirovsky Single crystalline CdTe solar cells grown by MOCVD	341
R. Herberholz and M.J. Carter Investigation of the chalcogen interdiffusion in $CuIn(TeSe)_2$ thin films	357
L. Hernandez, I. Perez-Quintana and A. Martel Modification of fundamental parameters in the silicon solar cells by current pulses	367
J. Isidorsson and C.G. Granqvist Electrochromism of Li-intercalated Sn oxide films made by sputtering	375
N.D. Kaushika and M. Arulanantham Transmittance-absorptance product of solar glazing with transparent insulation materials	383
S. Palmer, G.W. Mbise, G.A. Niklasson and C.G. Granqvist Angular selective optical properties of thin films: Measurement of polar and azimuthal transmittance	397
N. Papageorgiou, M. Grätzel and P.P. Infelta On the relevance of mass transport in thin layer nanocrystalline photoelectrochemical solar cells	405
A.C. Ribes, S. Damaskinos, H.F. Tiedje, A.E. Dixon and D.E. Brodie Reflected-light, photoluminescence and OBIC imaging of solar cells using a confocal scanning laser MACROscope/microscope	439
M.A. Sobhan, R.T. Kivaisi, B. Stjerna and C.G. Granqvist Thermochromism of sputter deposited $W_xV_{1-x}O_2$ films	451

T. Tsirlina, S. Cohen, H. Cohen, L. Sapir, M. Peisach, R. Tenne, A. Matthaeus, S. Tiefenbacher, W. Jaegermann, E.A. Ponomarev and C. Lévy-Clément Growth of crystalline WSe ₂ and WS ₂ films on amorphous substrate by reactive (Van der Waals) rheotaxy	457
P. Vitanov, N. Tyutyundzhiev, P. Stefchev and B. Karamfilov Low cost multilayer metallization system for silicon solar cells	471
M. Koltun, D. Faiman, S. Goren, E.A. Katz, E. Kunoff, A. Shames, S. Shtutina and B. Uzan Solar cells from Carbon	485
Miscellaneous	
Author index to volume 44	493
Subject index to volume 44	497
Contents of volume 44	499
Selected back issues	503

